

**DETAILED ACTION**

1. Claims 1-86 are pending.
2. Claims 1-86 are restricted.

***Election/Restrictions***

1. Upon initial review of the claims it appears that claims as detailed below differ in subject matter and therefore require a different search. In accordance with this a restriction is deemed proper.

2. Restriction to one of the following inventions is required under 35 U.S.C. 121:

Group I: Claims 1-23, and 34-50 are drawn towards configuring a network device, Class 709/220.

Group II: Claims 24-33, drawn to compiling, Class 717/143

Group III: Claims 51-58, and 59-65 are drawn to programming language techniques, Class 717/114+

Group IV: Claims 66-79, and 83-86 are drawn towards looking at the semantic effect of modifying a device configuration, Class 709/228

Group V: Claims 80-82 drawn to a method of compiling, Class 717/140+

3. Invention I is directed to a system for managing and configuring a network device, invention II is directed to a method of parsing and compiling configurations, invention III is directed to the method of generating a syntax tree for a command for a device, invention IV is directed towards a method of identifying a semantic effect of modifying a device configuration, while invention V is directed towards a method of compiling a configuration. The related inventions are distinct if the (1) the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect; (2) the inventions do not overlap in scope, i.e., are mutually exclusive; and (3) the inventions as claimed are not obvious variants. See MPEP § 806.05(j). In the instant case, the inventions as claimed are distinct and do not overlap in scope, i.e. are mutually exclusive. Furthermore, the inventions as claimed show no record to show them to be obvious variants.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and divergent subject matter, and because the searches for the individual Groups are not coextensive, restriction for examination purposes as indicated is proper.

4. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement may be traversed.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RYAN J. JAKOVAC whose telephone number is (571)270-5003. The examiner can normally be reached on Monday through Friday, 7:30 am to 5:00 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Taghi T. Arani can be reached on (571) 272-3787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 4121

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RJ

/Taghi T. Arani/  
Supervisory Patent Examiner, Art Unit 4121  
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